

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Bruce A. Bailey BSF Aq Research

Telhereas, there has been presented to the

### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH-CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-E OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, PORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'PRN-82'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Blant Variety Protection Office to be affixed at the City of washington this 22nd day of February in the year of our Lord one thousand nine

hundred and eighty-five.

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LIVESTOCK, MEAT, GRAIN & SEED DIVISION						No certificate for plant variety protection		
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#### SOYBEANS

PRN-82 ' Rfs (Temporary Designation)

#### EXHIBIT A:

PRN-82 was derived from a population of 15 million plants of Foundation Williams 82. The selection occurred with predictable regularity at 1:12 acres or 1:1,875,000 plants. A total of eight plants were discovered in July, 1982. Replication of the seed from the original eight selections is currently under replication and is still maintaining its original identity throughout all current replications.

PRN-82 appears to be an outcross or more probable an immediate sister to the variety William 82 due to the similarity of basic gene markers.

Additional Statement:

### Exhibit A (variant)

RYS

It should be noted that PRN-82 has a cloudy black hilum while the variety Williams 82 has a clear black hilum. This may appear to be in conflict with item 6, Exhibit C. PRN-82 hilum, however, cannot be called imperfect black as it is more black than imperfect black. It is for this reason I call it a cloudy black. | See enclosed sample|

### Additional Statement - Exhibit A

- 1. At the time of selection, all eight selections appeared to have identical gene markers and/or characteristics.
- 2. In the first generation after selection, the seed from each plant was planted in single plant rows. In our nurseries, we had eight individual plant rows and between each plant row, the variety Williams 82 was planted for additional comparison.
- 3. Uniformity: Observations of the eight plant rows in all locations indicated that all characteristics maintained themselves identically throughout and differences between the variety Williams 82 and PRN-82 are genetic and not environmental. At this time, PRN-82 is bulk because of the latter observations. Three generations have been observed; two in Portland, Indiana and one generation in Pharr, Texas (Winter Nursery, 1983). One generation (1983) was observed in Charleston, Illinois nursery.
- 4. It is possible that PRN-82 could be a plant height mutation. However, because of consistent and notable differences in foliar pigmentation and other characteristics noted throughout this application, I believe it to be remarkably different.

### NOVELTY STATMENT

EXHIBIT B:

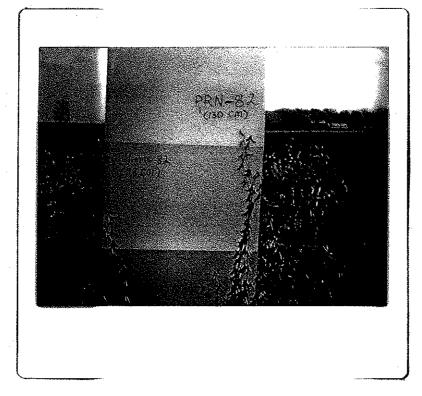
. RJS

PRN-82 is most similar to Williams 82.
\*PRN-82 differs from Williams 82 in its overall height at 51 inches (approx. 130 cm) compared to Williams 82 at 39 inches (approx. 98 cm).

PRN-82 also differs from Williams 82 as the selection exhibits a lighter green foliage.

\* See Exhibit B attachment.

EXHIBIT B Attachment



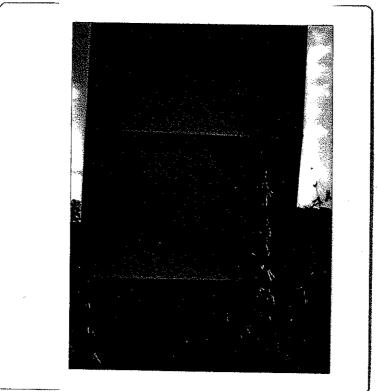


EXHIBIT C

Page 1 of 4

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

### OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

SOYBEA	AN (Glycine max L.)		
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME	PRN-82
Bruce A. Bailey/BSF Ag Research	PRN 82	Not yet der	signated Rys
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code	e)	FOR OFFIC	IAL USE ONLY
Box 178, R.R.#6	•	PVPO NUMBER	
Portland, Indiana 47371		84	00032
Choose the appropriate response which characterizes the varing your answer is fewer than the number of boxes provided, Starred characters * are considered fundamental to an adequate when information is available.	place a zero in the first box	when number is 9 or le:	ss (e.g., 0 9).
1. SEED SHAPE:    2	T 2 = Spherical Flattened 4 = Elongate Flattened	(L/W ratio > 1.2; L/T rat (L/T ratio > 1.2; T/W >	tio = <b>&lt;</b> 1.2) 1.2)
2. SEED COAT COLOR: (Mature Seed)		<del> </del>	······································
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	(Specify)	
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)			
1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy	y'; 'Gasoy 17')		en e
4. SEED SIZE: (Mature Seed)			
1 8 Grams per 100 seeds	en e	en de la companya de	and the second s
5. HILUM COLOR: (Mature Seed)			
6 1 = Buff 2 = Yellow 3 = Brown 4	= Gray 5 = Imperfect Bla	ack 6 = Black	7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)			
1 = Yellow 2 = Green		e og kræse e e	Per en la seconda de la se
7. SEED PROTEIN PEROXIDASE ACTIVITY:			· · · · · · · · · · · · · · · · · · ·
2 = High	in in Son signed a street, and the an	Ministration of the state of th	
8. SEED PROTEIN ELECTROPHORETIC BAND:	<b>க</b> ுத் இடிப்பின் இது		
1 = Type A (SP1 <sup>a</sup> ) 2 = Type B (SP1 <sup>b</sup> )		er e	
9. HYPOCOTYL COLOR:			
1 = Green only ('Evans'; 'Davis') 2 = Green with to a = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'C	bronze band below cotyledons (* coker Hampton 266A:)	Woodworth'; 'Tracy')	
IO. LEAFLET SHAPE:		<del></del>	
1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)		· •

FORM LMGS-470-57 (6-83)

(Edition of 2-82 is obsolete.)

11. LE	AFLET SIZE:					
	1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medium	('Corsoy 79'; 'Gas	oy 17')	• • • • • •	
·.		e proteste	and the second second second		y s s s s s s s s s s s s s s s s s s s	
12. LE	AF COLOR:	na dia kacamatan da kacamatan da Managaran da kacamatan da kacama	4 5 4 5 4 5 4 5	e Geografia (1985) i Marketta (1985)		
	1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')	2 = Medium	Green ('Corsoy 79	'; 'Braxton')	e de la companya del companya de la companya del companya de la co	
13 FI	OWER COLOR:					. 22.7
G	1 = White 2 = Purple	3 = White with p	ourple throat	ing the second of the second o	en e	
14. PO	D COLOR:	<del></del>		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1.0400 S.1
ū	1 = Tan 2 = Brown	3 = Black	e de la companya de La companya de la companya de l	en e		e e e e e e e e e e e e e e e e e e e
15. PL	ANT PUBESCENCE COLOR:	<u> </u>	· · · · · · · · · · · · · · · · · · ·		<u></u>	is a superior section
2	1 = Gray 2 = Brown (Tawny)	en e		ereng an orang salah salah	en e	
16. PL/	ANT TYPES:	, 11	2 (12)	The State of the S	yerith a	CANADA PARA
2	1 = Slender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intermed	liate ('Amcor'; 'Bra	ixton*)		eren erren de a envarregario
17. PLA	ANT HABIT:					a market en
3	3 - Mosterninate ( Nebsoy , Improved Per		erminate ('Will')		- W	en e
18. MA	TURITY GROUP:		e tess	274	The second of the second	
0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	· · · · · · · · · · · · · · · · · · ·	5 = II $6 = 113 = X$	Щ <sub></sub>	/ 8 = V.	e a comprehensive de la co
	to english the state of the sta				**.	
	EASE REACTION: (Enter 0 = Not Tested; 1 = S CTERIAL DISEASES:	iusceptible; 2 = Resist	ant)			
* [	Bacterial Pustule (Xanthomonas phaseoli va	ur coinneicl			:	•
* [	Bacterial Blight (Pseudomonas glycinea)	1. 30jenasy				
	Wildfire (Pseudomonas tabaci)					e i de production de la secono
× [ (	GAL DISEASES:					
<b>★</b> [5	7					
·	Brown Spot (Septoria glycines)			`. `.		San Care State
<b>★</b> 0	Frogeye Leaf Spot (Cercospora sojina)  Race 1 Race 2 Rac	ce 3 Rac	e 4	lace 5	Other (Specify)	
	Target Spot (Corynespora cassiicola)			[ <u>[]</u>		
	Downy Mildew (Peronospora trifoliorum var	. manshurica)	$s_{A_{i}} \approx f_{i} h t_{i}$	ex t	144	
	Powdery Mildew (Microsphaera diffusa)		The second secon	w g .		
⋆ቩ	Brown Stem Rot (Cephalosporium gregatum	er i saktitti tati. <b>J</b> ohanna	n de taken de teleberaria. De la composition de	e to de		
<u>- 1</u>	Stem Canker (Diaporthe phaseolorum var. ca	n de la companya de La companya de la co	till a såtill til 1900. Till skallet ville i 1900. Britiske sam i 1900.	· ·		3***

19	DISEA	ASE REACTIO	N: (Enter 0 = Not Tested; 1 = Susceptible;	2 = Resistant) (Continued)	
	FUN	NGAL DISEAS	ES: (Continued)		IC
*	٥	Pod and Ste	m Blight <i>(Diaporthe phaseolorum</i> var; s <i>ojae</i>	)	· · ·
		Purple Seed	Stain (Cercospora kikuchii)	· ·	
	0	Rhizoctonia	Root Rot (Rhizoctonia solani)		
	ست	Phytophtho	ra Rot <i>(Phytophthora megasperma</i> var. <i>soja</i>	<i>e)</i>	
*	2	Race 1		2 Race 4 2 Race 5	2 Race 6 2 Race 7,
	13	Race 8	Race 9 2 Other (Specify	1+1	
	VIR	AL DISEASES		/	PURCUE INOCULUM
			Tobacco Ringspot Virus)		
4	쁜	Yellow Mosa	ic (Bean Yellow Mosaic Virus)		
×		Cowpea Mos	aic (Cowpea Chlorotic Virus)		
		Pod Mottle (	Bean Pod Mottle Virus)		
*	0	Seed Mottle	(Soybean Mosaic Virus)		
	NEM.	ATODE DISE	ASES:		
·		Soybean Cys	t Nematode (Heterodera glycines)		•
*	0	Race 1	Race 2 Race 3	Race 4 Other (S	pecify)
	0	Lance Nemat	ode (Hopiolaimus Colombus)	<del></del>	
*		Southern Roc	ot Knot Nematode <i>(Meloidogyne incognita</i> ,	,	
*			ot Knot Nematode (Meloidogyne Hapla)		·
,-			Knot Nematode (Meloidogyne arenaria)		
			matode (Rotylenchulus reniformis)	•	
	0	OTHER DISE	ASE NOT ON FORM (Specify):		
20.	PHYSIO	LOGICAL RE	SPONSES: (Enter 0 = Not Tested; 1 = Sus	ceptible; 2 = Resistant)	
*	0	Iron Chiorosis	on Calcareous Soil		
4		Other (Specify	double rate triazi	ne levels	
21 (	لظا		(Enter 0 = Not Tested; 1 = Susceptible; 2 =		
		1.0			en e
	$\overline{}$		Beetle (Epilachna varivestis)	and the second of the second o	e de la calendaria.
				en e	entropy of the participants
		Other (Specify		A. Brantan Branton	
22.	NDICAT	TE WHICH VA	RIETY MOST CLOSELY RESEMBLES T	HAT SUBMITTED.	
	CHARACTER NAME OF VARIETY		CHARACTER	NAME OF VARIETY	
Ρ	ant Shar	pe _	Union	Seed Coat Luster	Williams 82
Leaf Shape Williams 82		Seed Size	Williams 82		
<del></del>	eaf Color	r	Cumberland	Seed Shape	Williams 82
L	eaf Size		Williams 82	Seedling Pigmentation	Williams 82

### 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLÉT SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/	
				CM Width	CM Length	% Protein	% Oil	SEEDS	POD	
Submitted	William 1 day	ıs 1.5*	130	Not o.	DSERVED	29.83 Notrested	29.83	18 grams	88% - 3/po 7% - 4/po 5% - 2/po	
Name of Similar Variety	William 82	s 1*	98	Not ok	SERVED	NOT TESTED	18.83	18 grams	90% - 3/po 6% - 4/po 4% - 2/po	

### PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.
- \* 1 = All plants erect
  - 2 = All plants leaning slightly
  - 3 = 20-50% plants down
  - 4 = 50-80% plants down
  - 5 = 80% or more plants down



# BAILEY SEED FARMS, INC.

HYBRID SEED CORN • SMALL GRAINS

### Exhibit d

Additional Statement

In three replications (1983) PRN-82 has outyielded its nearest most probable relative, Williams 82, by 1.85 bushels per acre.

A less obvious characteristic than the striking difference in overall height between PRN-82 and Williams 82 is that PRN 82 exhibits a more slender plant type.

PRN-82 has maintained an 11% higher oil content than the comparative variety Williams 82.

Exhibit d attachment: Lab test for wil content.

### Burgess & Niple, Limited

### **Engineers and Architects**

5085 Reed Road • Columbus, OH 43220 2581 • (614) 459-2050



November 22, 1983

Mr. Bruce A. Bailey Bailey Seed Farms, Inc. R.R. 6, Box 178 Portland, IN 47371

Dear Mr. Bailey:

On October 28 our laboratory received from you two packets of soybean seeds for analysis. The findings of these analyses are as follows:

Oil Content	Williams 82 PRN-82	18.83% 29.83%
Protein Peroxidase	Williams 82 PRN-82	Ep (High) Ep (High)
Electrophoretic Band	Williams 82	Sp <sub>]</sub> (b)
	PRN-82	Sp <sub>3</sub> (b)

If we can be of further service to you at any time or if you have any questions, please do not hesitate to call.

Sincerely,

James F. Phillips Chief Chemist

JFP:ab